

I. GENERAL

PROJECT DESCRIPTION

This project involves the reconstruction of an existing signal to provide for additional through and right turn lanes along the I-95 exit ramp (Capital Beltway), a new median along US Route 1, and the addition of IKEA Way to the north side of the intersection. The existing signal poles located at all four corners of the intersection will be removed and new signal poles with mast arms and new pedestrian pole will be installed at all four corners of the intersection. Detection cameras will be installed for all of the "at signal" lanes for IKEA Way and the I-95 exit ramp. Micro-probes will be used for the advanced detection along US Route 1, IKEA Way, and the I-95 exit ramp.

II. INTERSECTION OPERATION

1. The intersection is to operate in a NEMA 8-phase, semi-actuated mode, with the East-West approaches running separately.

III. CONTROLLER REQUIREMENT

1. Install a fully-actuated, eight phase controller with four (4) - four channel, time-delay-output loop detector amplifiers, and associated harnesses housed in a NEMA size "6" base mounted cabinet.

PROJECT CONTACTS

THE CONTACT PERSONS FOR DISTRICT #3 ARE AS FOLLOWS:

MR. CHARLIE WATKINS
DISTRICT ENGINEER
(301) 513-7311

MR. DENNIS McMAHON
ADE CONSTRUCTION
(301) 513-7345

MR. RICHARD DAFF
DIVISION CHIEF, TOD
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MR. MAJID SHAKIB
ADE TRAFFIC
(301) 513-7358

MR. BARRY KING
CHIEF, TEDD
(410) 787-4011

MR. EDWARD RODENHIZER
CHIEF OF SIGNAL OPERATIONS
(410) 787-7652

EQUIPMENT LIST B

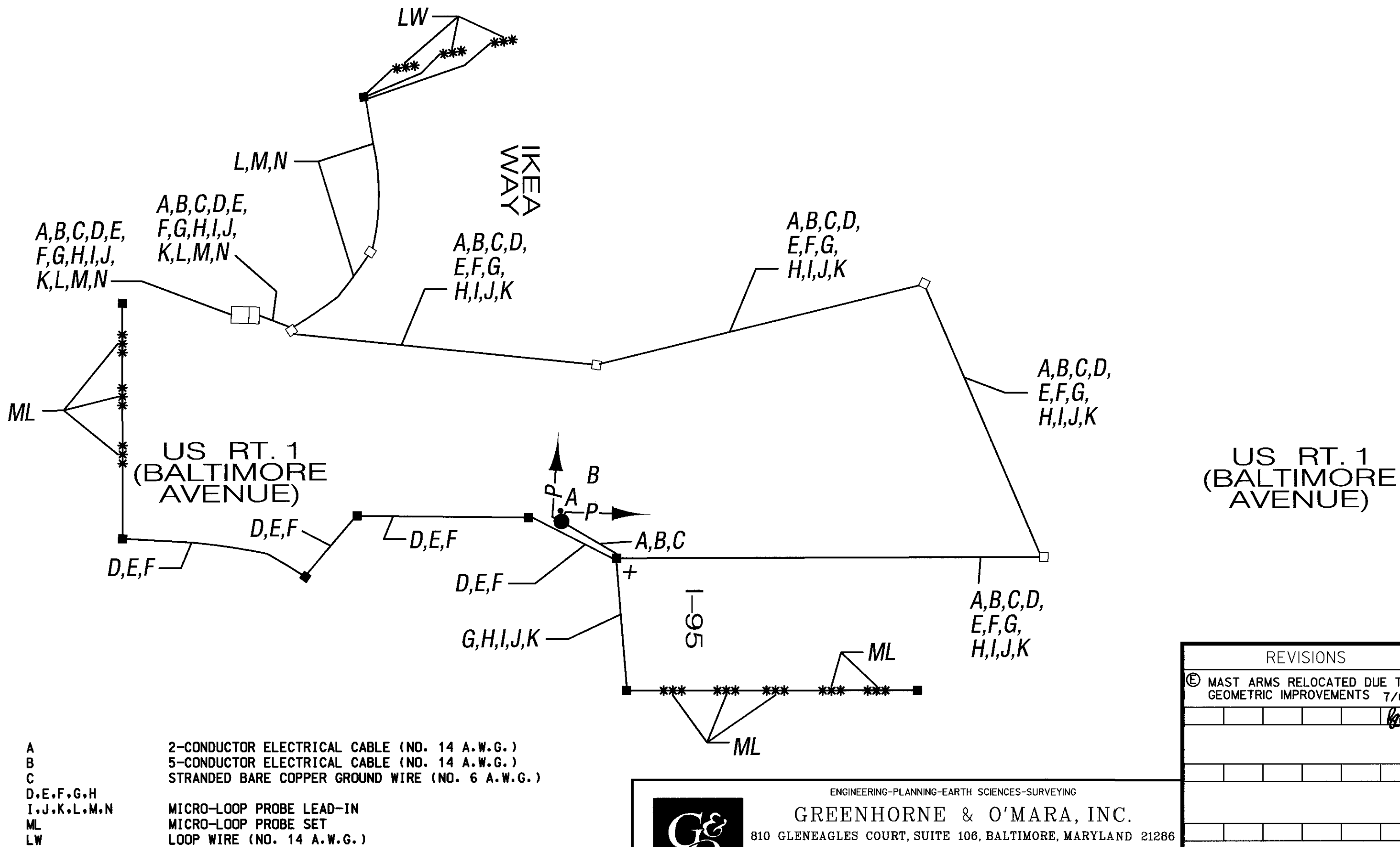
B. EQUIPMENT TO BE FURNISHED AND INSTALLED BY CONTRACTOR.

QUANTITY	DESCRIPTION
140 LF	FURNISH AND INSTALL 4 IN. SCHEDULE 80 RIGID PVC CONDUIT (SLOTTED)
30 LF	FURNISH AND INSTALL 3 IN. SCHEDULE 80 RIGID PVC CONDUIT (SLOTTED)
730 LF	FURNISH AND INSTALL 3 IN. SCHEDULE 80 RIGID PVC CONDUIT (TRENCHED)
9 EACH	FURNISH AND INSTALL ELECTRICAL HANDHOLE
1 EACH	FURNISH AND INSTALL 10 FT. PEDESTAL POLE
8 EACH	FURNISH AND INSTALL 12 IN., ONE-WAY, TWO SECTION (WALK, DON'T WALK) PEDESTRIAN SIGNAL HEAD WITH ADJUSTABLE BRACKET FOR MAST ARM POLE MOUNTING AND CUTAWAY VISORS.
2 EACH	FURNISH AND INSTALL PEDESTRIAN PUSHBUTTON AND R10-4(2) SIGN - "PUSHBUTTON TO CROSS BALTIMORE AVE."
6 EACH	FURNISH AND INSTALL 3/4 IN. X 10 FT. GROUND ROD
420 LF	FURNISH AND INSTALL ELECTRICAL CABLE-5 CONDUCTOR (NO.14 AWG)
420 LF	FURNISH AND INSTALL STRANDED BARE COPPER GROUND WIRE (NO. 6 AWG)
420 LF	FURNISH AND INSTALL ELECTRICAL CABLE-2 CONDUCTOR (NO. 14 AWG)
11 EA	FURNISH AND INSTALL MICRO-LOOP PROBE SET WITH 500 FT. LEAD-IN
30 LF	FURNISH AND INSTALL 1 IN. LIQUID TIGHT FLEX. CONDUIT (DETECTOR SLEEVE)
60 LF	FURNISH AND INSTALL SAW CUT FOR SIGNAL (DETECTORS)

PHASING
SEQUENCE
CHART

PHASE 02 & 06	G	G	G	G	R	R	R	R	R			
PHASE 02 & 06 CHANGE	Y	Y	Y	Y	R	R	R	R	R			
PHASE 03	R	R	R	R	R	R	G	G	G			
PHASE 03 CHANGE	R	R	R	R	R	R	Y	Y	Y			
PRE-EMPT PHASE	R	R	R	R	G	G	R	R	R			
PRE-EMPT PHASE CHANGE	R	R	R	R	Y	Y	R	R	R			
FLASHING OPERATION	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R			

WIRING DIAGRAM



REVISIONS	
1	MAST ARMS RELOCATED DUE TO GEOMETRIC IMPROVEMENTS 7/02
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MARYLAND DOT - STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION
Traffic Signal Plan (MOT Phases 1B & 2)
US RT. 1 (BALTIMORE AVENUE) & I-95 RAMPS/IKEA WAY

DRAWN BY: OOP	F.A.P. NO. P-560-502-372	TS NO. TS-3130D-6	SHEET NO. 4 OF 22
CHECKED BY: RWH	S.H.A. NO. P-560-502-372	T.I.M.S. NO. 5241	
SCALE: 1" = 20'	COUNTY: PRINCE GEORGE'S	LOG MILE: 160.00/166.53	
DATE: FEBRUARY 11, 1991			